

## CPC - Compressor Cooler Series



### Aircooled combicoolers for oil-injected screw compressors

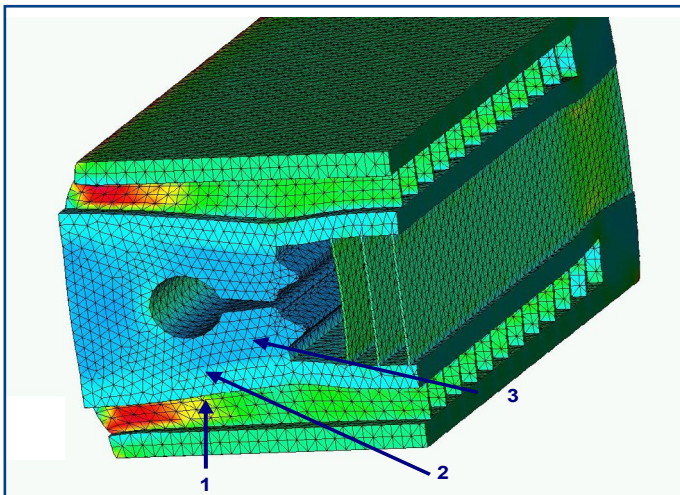
AKG created a new economical standard cooler series for screw compressors up to 37 kW. Developed from series production of well-known OEM's this range is loaded with technical novelties. Our latest evolutionary improvements were incorporated to supply highest quality features for a standard range.

# Special Features and Benefits

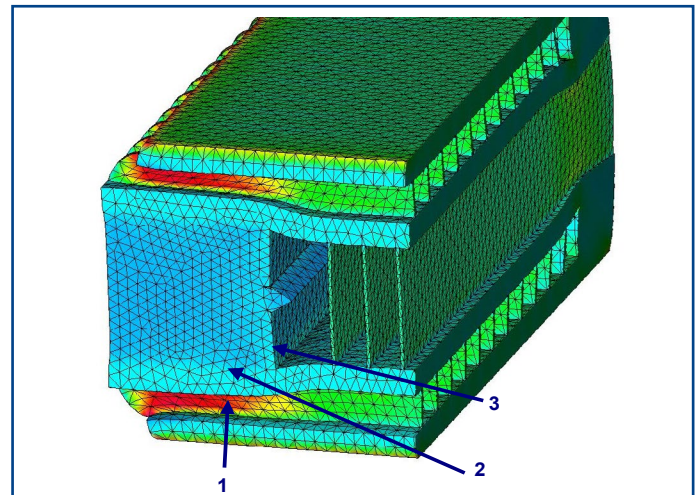


- high performance hollow core profiles reduce thermal tension
- special endplates for thermal stress relief
- separating air passage between oil and air side
- optimized fin / turbulator combination
- 4 combi-coolers provide power ratings from 4 kW to 37 kW
- standard models are readily available from stock, short delivery times

CPC coolers are designed for extended lifetime even under heavy duty conditions and frequent load / unload cycles.

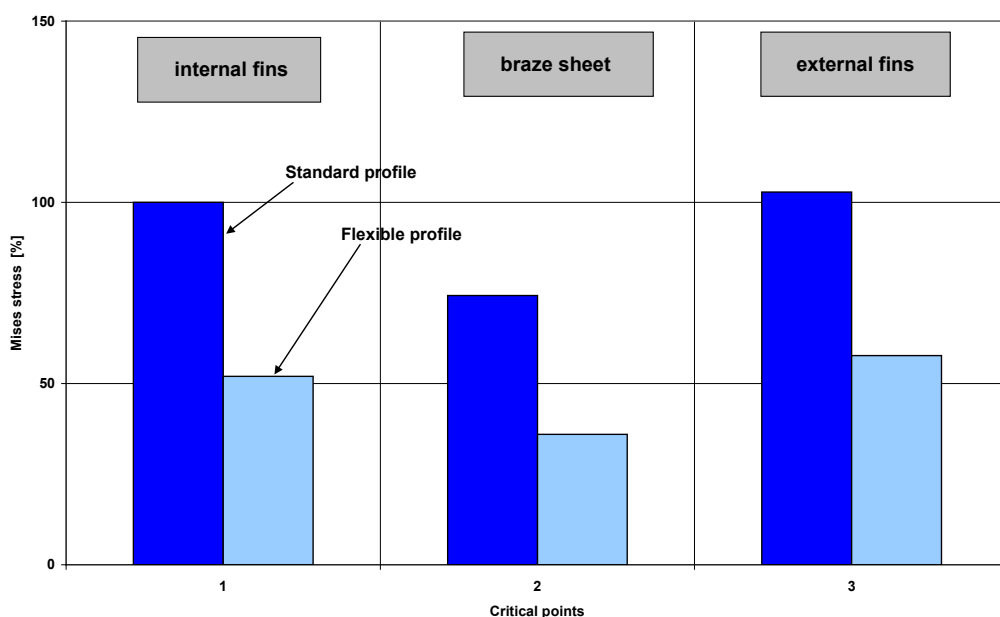


Cooler with flexible profile

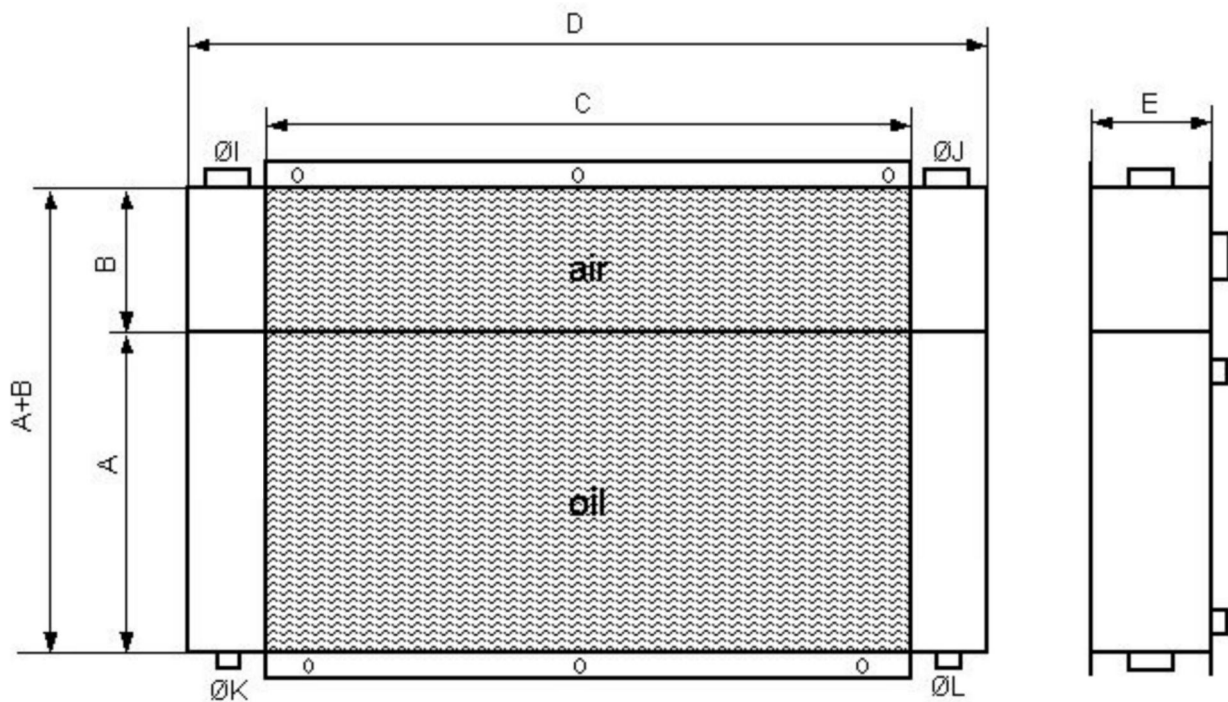


Cooler with standard profile

## Mises stresses in critical areas



# Technical Data

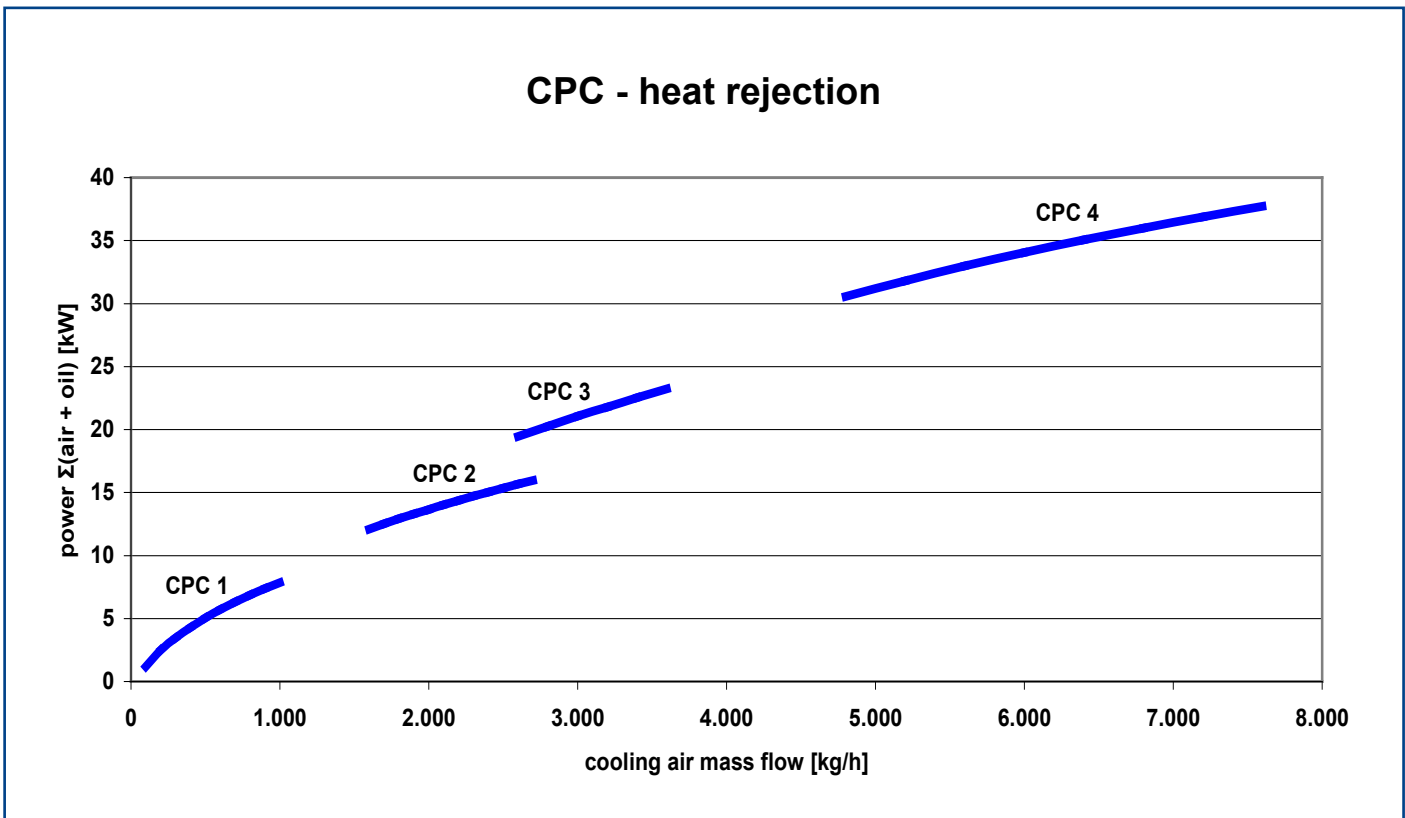


| type                           | CPC 1         |            |            | CPC 2         |           | CPC 3         |           | CPC 4         |           |
|--------------------------------|---------------|------------|------------|---------------|-----------|---------------|-----------|---------------|-----------|
| <b>AKG-No.</b>                 | 5481.007.9500 |            |            | 5482.015.9500 |           | 5483.022.9500 |           | 5484.037.9500 |           |
| <b>total power [kW]</b>        | <b>4</b>      | <b>5.5</b> | <b>7.5</b> | <b>11</b>     | <b>15</b> | <b>18</b>     | <b>22</b> | <b>30</b>     | <b>37</b> |
| <b>oil cooler [kW]</b>         | 3.59          | 4.30       | 6.00       | 8.97          | 11.78     | 15.33         | 18.10     | 24.70         | 30.00     |
| <b>air cooler [kW]</b>         | 1.03          | 1.38       | 1.86       | 2.90          | 3.89      | 3.75          | 4.44      | 5.94          | 7.58      |
| <b>oil flow [l/min.]</b>       | 12            | 15         | 20         | 23            | 28        | 33            | 40        | 45            | 43        |
| <b>air flow [kg/h]</b>         | 40            | 53         | 80         | 120           | 160       | 200           | 240       | 330           | 370       |
| <b>cooling air flow [kg/h]</b> | 500           | 730        | 1,000      | 1,700         | 2,600     | 2,700         | 3,400     | 4,800         | 7,500     |
| <b>oil temp. [°C]</b>          | max. 100      |            |            |               |           |               |           |               |           |
| <b>air temp. [°C]</b>          | max. 100      |            |            |               |           |               |           |               |           |
| <b>amb. temp. [°C]</b>         | max. 45       |            |            |               |           |               |           |               |           |
| <b>working pressure [bar]</b>  | 15            |            |            |               |           |               |           |               |           |
| <b>weight [kg]</b>             | 8             |            |            | 9,8           |           | 13,8          |           | 19,7          |           |
| <b>A [mm]</b>                  | 241           |            |            | 272           |           | 333           |           | 486           |           |
| <b>B [mm]</b>                  | 92            |            |            | 107           |           | 106           |           | 143           |           |
| <b>A+B [mm]</b>                | 333           |            |            | 379           |           | 439           |           | 629           |           |
| <b>C [mm]</b>                  | 350           |            |            | 400           |           | 550           |           | 550           |           |
| <b>D [mm]</b>                  | 450           |            |            | 500           |           | 650           |           | 650           |           |
| <b>E [mm]</b>                  | 63            |            |            | 63            |           | 63            |           | 63            |           |
| <b>oil coupling [G"]</b>       | 1/2 (K+L)     |            |            | 1/2 (K+L)     |           | 1/2 (K+L)     |           | 3/4 (K+L)     |           |
| <b>air coupling [G"]</b>       | 3/4 (I+J)     |            |            | 3/4 (I+J)     |           | 1 (I+J)       |           | 1-1/4 (I+J)   |           |

# Performance Curves



valid for oil / air inlet temperature: 100°C, cooling air temperature: 45°C



Performance data valid for specified temperatures and mass flows. Detailed specifications for individual applications available on request. Please return completed requirement list to AKG. Please mind our set up and operating instructions.